Online data sheet



RFH620-1000001

RFH6xx

RFID

SICK
Sensor Intelligence.



Ordering information

Type	Part no.
RFH620-1000001	1044838

Other models and accessories → www.sick.com/RFH6xx

Detailed technical data

Features

Version	Short Range
Product category	Write/read device with integrated antenna
Radio approval	Global
Frequency band	HF (13.56 MHz)
Carrier frequency	13.56 MHz
Output power	200 mW
RFID standard	ISO/IEC 15693, ISO/IEC 18000-3 “Mode 1”
Connection type	Cable
Scanning range	Max. 150 mm [1)]
Antenna	Integrated
Further functions	Freely programmable data output format, Heartbeat, diagnosis, cloning function (microSD memory card or system), updatable firmware, triggering
Typical access times	UID read (64 bits/8 bytes): 18 ms Read 1 block (32 bit/4 Byte): 13 ms Write 1 block (32 bit/4 Byte): 16 ms Read 28 blocks (896 bit/112 Byte): 64 ms Write 28 blocks (896 bit/112 Byte): 442 ms
Data transmission rate	26 kbit/s (default)

[1)] With RFID ISO card transponder in plane parallel alignment to read/write device antenna; depending on dimensions and quality of transponder.

Interfaces

PROFINET	✓
Type of fieldbus integration	Optional over external fieldbus module CDF600-2
Function	PROFINET Dual Port
EtherCAT®	✓

Type of fieldbus integration	Optional over external fieldbus module CDF600
Serial	✓, RS-232, RS-422
Data transmission rate	0.3 kBaud ... 115.2 kBaud
CAN	✓
Remark	CSN (SICK CAN Sensor Network)
Data transmission rate	20 kbit/s ... 1,000 kbit/s
CANopen	✓
Data transmission rate	20 kbit/s ... 1,000 kbit/s
PROFIBUS DP	✓
Type of fieldbus integration	Optional over external fieldbus module CDF600-2
DeviceNet™	✓
Type of fieldbus integration	Optional available externally
Switching inputs	4 (“Sensor 1”, “Sensor 2”, 2 inputs via optional parameter storage CMC600 in CDB620/ CDM420)
Switching outputs	4 (“Result 1”, “Result 2”, 2 outputs via optional parameter storage CMC600 in CDB620/ CDM420)
Optical indicators	6 LEDs (Ready, Result, RF, Data, CAN, LNK TX)
Acoustic indicators	1 beeper (to confirm reading, adjustable)
Configuration software	SOPAS ET

Mechanics/electronics

Electrical connection	1 x Cable with 15-pin D-sub HD male connector
Operating voltage	10 V DC ... 30 V DC
Power consumption	Typ. 5 W
Housing color	Blue, black
Enclosure rating	IP67
Protection class	III
Weight	520 g, with connecting cable
Dimensions (L x W x H)	147 mm x 88 mm x 39 mm

Ambient data

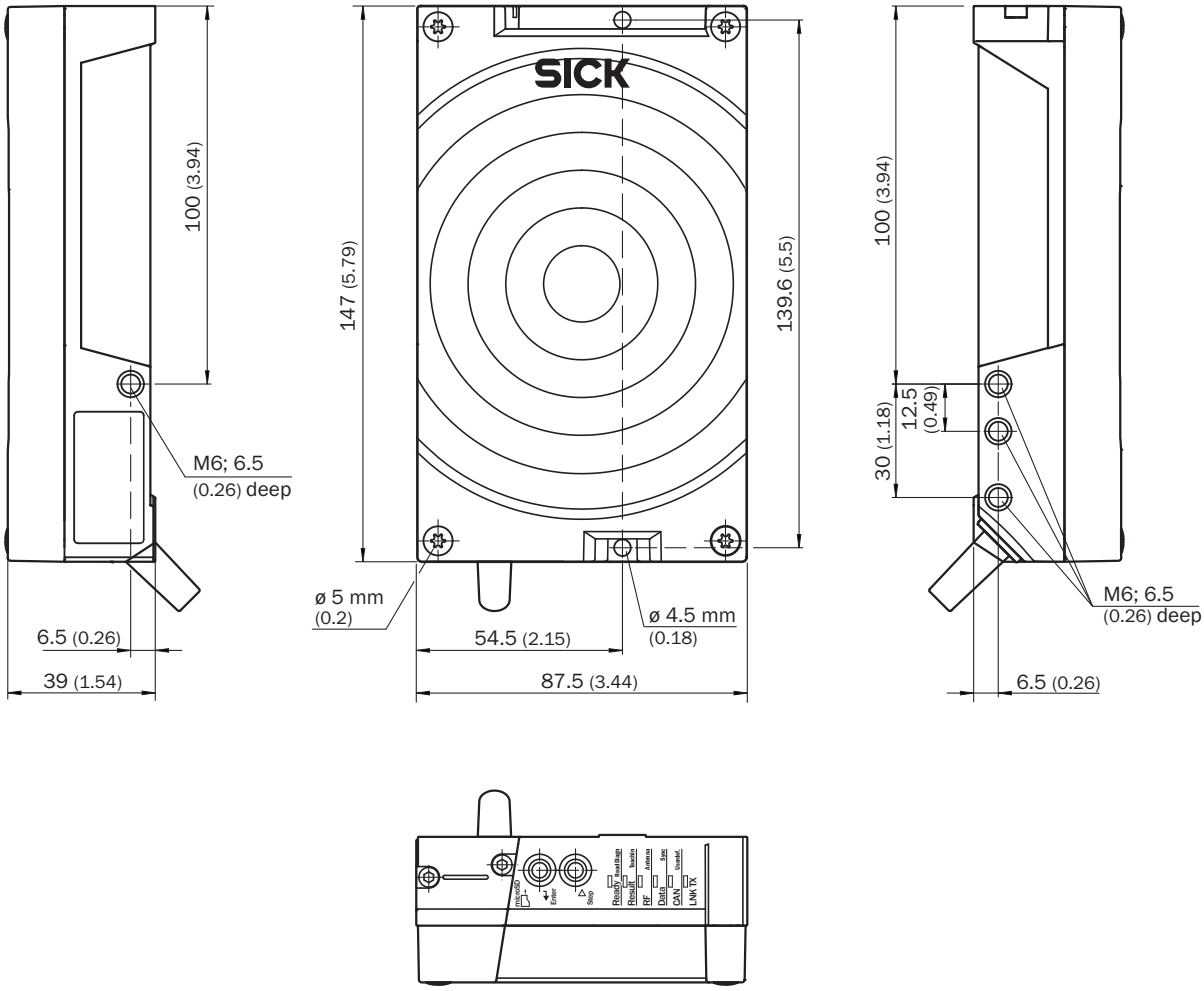
Electromagnetic compatibility (EMC)	EN 301489-3 V1.6.1 Receiver Class 2
Vibration resistance	EN 60068-2-6
Shock resistance	EN 60068-2-27
Ambient operating temperature	–20 °C ... +60 °C
Storage temperature	–25 °C ... +70 °C
Permissible relative humidity	95 %, Non-condensing

Classifications

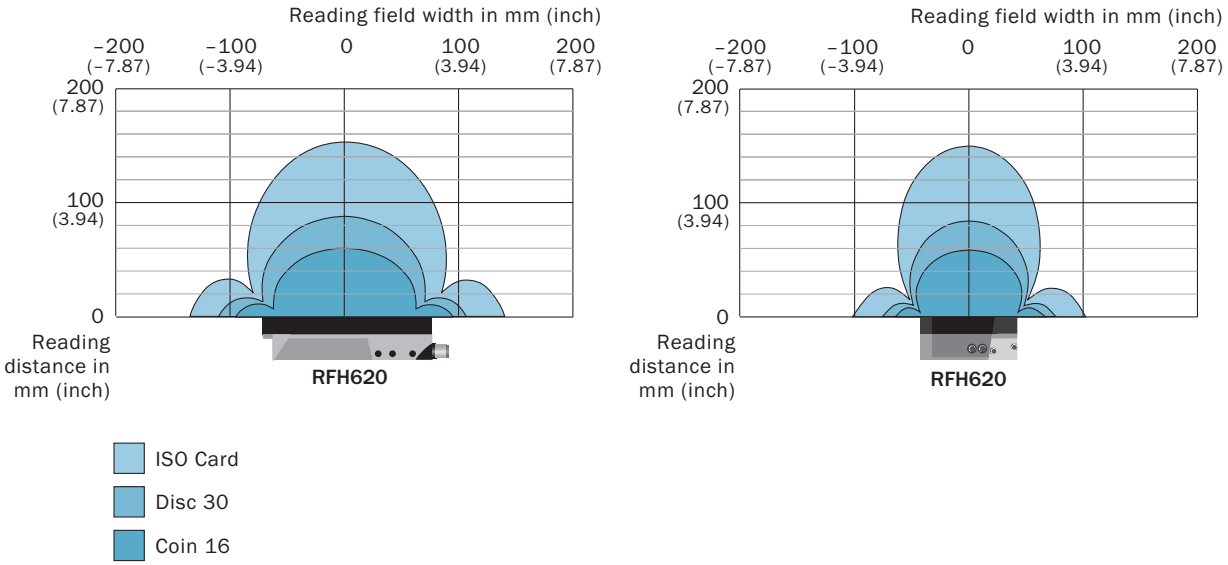
ECl@ss 5.0	27280401
ECl@ss 5.1.4	27280401
ECl@ss 6.0	27280401
ECl@ss 6.2	27280401
ECl@ss 7.0	27280401
ECl@ss 8.0	27280401

ECl@ss 8.1	27280401
ECl@ss 9.0	27280401
ETIM 6.0	EC002998
UNSPSC 16.0901	52161523

Dimensional drawing (Dimensions in mm (inch))



Reading field diagram



Recommended accessories

Other models and accessories ➜ www.sick.com/RFH6xx

	Brief description	Type	Part no.
Mounting brackets and plates			
	Mounting bracket, mounting hardware included	Mounting bracket	2048551
Modules			
	Small connection module for one sensor, 4 cable glands, base for CMC600	CDB620-001	1042256
	Fieldbus proxy/gateway for connecting identification sensors to PROFIBUS-DP networks (PROFIBUS interface: 2 x M12, male connector/female connector, 5-pin)	CDF600-2100	1058965
	Fieldbus proxy/gateway for connecting one identification sensor to PROFINET-IO networks (interface 2 x M12, female connector/female connector, 4-pin)	CDF600-2200	1062460
RFID transponder			
	HF transponder, PA 6, diameter 50 mm, NXP ICODE SLIX	Disk (50 mm)	6033781

SICK AT A GLANCE

SICK is one of the leading manufacturers of intelligent sensors and sensor solutions for industrial applications. A unique range of products and services creates the perfect basis for controlling processes securely and efficiently, protecting individuals from accidents and preventing damage to the environment.

We have extensive experience in a wide range of industries and understand their processes and requirements. With intelligent sensors, we can deliver exactly what our customers need. In application centers in Europe, Asia and North America, system solutions are tested and optimized in accordance with customer specifications. All this makes us a reliable supplier and development partner.

Comprehensive services complete our offering: SICK LifeTime Services provide support throughout the machine life cycle and ensure safety and productivity.

For us, that is “Sensor Intelligence.”

WORLDWIDE PRESENCE:

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